Review of Environmental and Other Impacts

For use by applicants to assess the environmental impacts in accordance with the National Environmental Policy Act of 1969, National Historic Preservation Act of 1966, and Executive Orders 11514 and 13287

Da				(construction, modernization, or major novation):			
Ар	plicant/Grantee:Pr	incipal I	nvestig	ator:			
A.	USE OF NATURAL RESOURCES						
	This set of criteria is concerned with the <i>accessibility</i> of nonrenewable natural resources such as land, minerals, and fuels as well as the flow resources (water and air) that are constantly renewed but in which short-term or local shortages might occur.						
Cri	iteria	lmp	act	Description of Environmental Impact (if applicable)			
		YES	NO				
Wi	II the project:						
1)	Change traditional use of the land parcel (by rezoning etc.)?			Present zoning: Present use of site: Proposed zoning:			
2)	Alter use of other land by related development of stores, roads, or site changes?						
	a) Generate new stores?						
	b) Cause new roads?						
	c) Cause new parking?						
Before answering question 3), consider these items: soil borings, <i>have/have not</i> been completed; proposed facility <i>will/will not</i> have foundations similar to other facilities in the area; the facility <i>is/is not</i> in a flood plain.							
3)	Use land for purposes unsuitable to its physical characteristics?						
4)	Include the use of wetlands (swamps, marshes, etc.)?						
5)	Block access to known mineral deposits?			(Sand, gravel, clay, stone, or other common building materials are not considered mineral deposits.)			
6)	Increase fuel and mineral consumption in state by more than 1% annually?			Est. annual fuel requirements:gallons of fuelcubic feet of natural gastons of coalkWh of electricity Expected source(s) of these fuels:			

(Principal Investigator)

Cri	teria	Impact		Description of Environmental Impact (if applicable)	
		YES	NO		
7)	Decrease the volume of water in a lake, river table, reservoir, etc.?			If yes, describe.	
8)	Change traditional use of a body of water?		□	If yes, describe.	
9)	Not comply with local and State land use planning?				
В.	POLLUTION				
	This set of criteria concerns the processes that generate pollution. These include the introduction of pollutants into the environment, changes in the flow of energy through the environment, and changes in the composition of environments through the augmentation or deletion of substances that are naturally present. The criteria are also directly concerned with the production and one-time use of materials and the proper disposal of wastes.				
Cri	Criteria Impact		Description of Environmental Impact (if applicable)		
		YES	NO		
Wi	I the project:				
1)	Increase identifiable ambient air pollution levels from a new emission source or from existing sources?				
2)	Increase identifiable ambient air pollution levels through a major increase in the number of or use of automobiles, trucks, etc.?			Approximate number of new employees: ———	
3)	Exceed city or State health standards with exhausts from fume hoods?			If yes, describe.	
4)	Involve				
	a) Dredging or swamp drainage?			If yes, describe	
	b) Construction of a waste treatment plant?			If yes, describe capacity & location.	

(Principal investigator)

Cri	teri	a	Impact		Description of Environmental Impact (if applicable)
			YES	NO	
	c)	Discharge of untreated human waste directly into a lake, river, etc.?			If yes, describe.
	d)	Discharge of laboratory wastes or biohazard wastes directly into a lake, river, etc.?			If yes, describe.
5)	pla	erload existing waste treatment nts due to new loads (volume, emicals, toxicity, etc.) water?			Please obtain and submit a connection permit or other approval from local sewer authority.
6)	COI	use soil erosion (after completion of nstruction phase) or leaching of eign substances (such as salt) into 1?			If yes, describe.
7)		ow seepage of contaminants into the ter table?			If yes, describe.
8)		rease the stress placed upon an ntified earthquake fault			If yes, please include a statement from a structural engineer.
9)		eate an identifiable change in uatic life by discharge of hot water?			If yes, explain.
10)		crease the percolation on more than e acre of land?			If yes, explain.
11)		use storm water runoff onto land ned by others?			If yes, explain.
pro	ojec		excess	of local	uestions 12-14: Completed and occupied I noise standards. Is project facility near a ed?
12)	a h de da 10 act Pro	oduce noises considered offensive to numan population (i.e., over 55 cibels (dB) A-weighted Ldn – y/night average sound levels with a -dB penalty applied to nighttime ivities at the property boundary?) oduce cumulative adverse noise			If yes, describe.

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Criteria	Impact		Description of Environmental Impact (if applicable)
	YES	NO	
13) Create sounds that result in changes in behavior patterns of animals?			If yes, describe.
14) Introduce major new sources of unshielded radiation?			If yes, describe.
15) Cause shock waves and/or vibration (after construction phase)?			If yes, describe.
16) Change the direction and wind velocity as to affect the local population (i.e., high-rise building)?			If yes, describe.
17) Cause a new, large volume of non-recycled items?			If yes, describe.
18) Result in the non-recycling of			If yes, describe.
recyclable items such as laboratory glassware, animal cages, and office paper?			If no, indicate number of Glassware-washing machines: Cage-washing machines:
19) Generate solid wastes that cannot be properly disposed of by existing facilities?			If yes, describe. If no, describe proposed methods and disposal sites.
20) Dispose of solid wastes in polluting landfills, wells, caves, etc.?			If yes, describe.
21) Require storage of waste pending technology for safe disposal?			If yes, describe.
22) Fail to comply with Federal, State, & local requirements for waste handling, transportation, or disposal methods?			If yes, describe proposed methods.

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C.	POPULATIONS					
	This section of the initial criteria addresses changes in human & plant populations. <i>NOTE:</i> For these criteria, the <i>affected area</i> is defined as being <i>greater</i> than 160 acres in size.					
Cri	teria	lm	pact	Description of Environmental Impact (if applicable)		
		YES	NO			
Wi	Il the facility cause:					
1)	A 5% change in the density of the local population?			Est. local population:		
2)	Alteration of transportation, health, education, and/or welfare service?			If yes, describe.		
3)	Change in social service needs by altering population's age distribution pattern (new schools, etc.)?			If yes, describe.		
4)	A 5% change in the transient population?			If yes, describe. Include est. number of Visitors: Patients: Students:		
5)	Changes in genetic engineering directed at the human population?			If yes, describe.		
6)	Violation of local, State, or Federal standards pertaining to population densities of or conservation of plants and animals?			If yes, describe. Also describe any approvals needed or submit those already obtained.		

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D. HUMAN SERVICES

As society has evolved, traditional self-sufficient human communities have given way to dense populations that depend upon the development and application of technology. Man's highly complex, technological environments are maintained by a variety of services, ranging from the provision of the basic necessities of food and water to complex systems of economic exchange. These services are largely interdependent, and their complexities must be considered.

NOTE: In this section, the human environment impacted upon is defined as less than 160 acres in size.

Criteria		lmp	oact	Description of Environmental Impact (if applicable)
		YES	NO	
Col	uld the proposed project disrupt:			
1)	Food supplies for 48 hours?			If yes, explain.
2)	Water supplies for over 48 hours?			If yes, explain.
3)	Electrical power for 48 hours?			If yes, explain.
4)	Heating supplies (natural gas, heating oil) for over 48 hours?			If yes, explain.
5)	Or deprive population of housing for over 48 hours?			If yes, explain.
6)	Removal of sewage for more than 12 hours?			If yes, explain.
7)	Removal of solid waste (trash) for more than 7 days?			If yes, explain.
8)	Existing health services' response in case of a disaster?	О		If yes, explain.

(Principal Investigator)

Criteria Impact		oact	Description of Environmental Impact (if applicable)	
		YES	NO	
9)	Telephone, telegraph, radio, or U.S. Postal service for over 2 weeks?		0	If yes, explain.
10)	Transit service for more than 2 weeks?			If yes, explain.
Wil	the proposed project use more than 5% of	of:		
11)	Remaining electrical capacity?			Estimated daily usage is kWh. Please obtain & submit an approval letter from local utility or plant engineer.
12)	Remaining water?			Estimated daily usage is gallons. Please obtain & submit an approval letter from local utility or plant engineer.
13)	Available capacity of the sewage treatment system (branch lines, mains, plants)?			Estimated daily flow is gallons. Please obtain & submit an approval letter from local utility.
14)	Available capacity of trash disposal system (collection, incinerator plant, landfill)?			Also clearly explain proposed handling and disposal of chemical wastes, biohazards, syringes, and other special wastes.
15)	Available heating fuel (gas, coal or heating oil)?			Annual quantities have already been described. Explain which of these fuels, if any, are in short supply.
Wil	the proposed project decrease:			
16)	By 5% the food delivery system by removal of retail food stores etc.?			If yes, explain.
17)	By 5% the area's domestic housing by demolition, closing, etc.?			If yes, explain. Will <i>any</i> housing be demolished, closed, etc.?

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Criteria	Impact		Description of Environmental Impact (if applicable)
	YES	NO	
18) By more than 5% the use of existing transit systems (bus, train, etc.)?			If yes, explain. Relate to extent of new employment.
19) Accessibility to routine health services by altering point-of-service delivery?			If yes, explain.
Will the proposed project :			
20) Increase by more than 5% the patient load of the area's routine care services?			If yes, explain.
21) Change the availability of social services by opening or closing facilities?			If yes, explain.
22) Increase by more than 5% the number of social services recipients (through unemployment)?			If yes, explain.
23) Cause discontinuation of existing stops or train stations?			If yes, explain.
24) Increase by more than 5% the annual volume of telephone, telegraph, or mail?			If yes, explain. Relate to new employment or change in location of employees.
25) Eliminate employment sources for 10% of the population?			If yes, describe.
26) Change school enrollment by more than 5%?			If yes, describe.

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E. HUMAN VALUES

The fifth set of criteria is directed toward human values concerning the environmental qualities generally agreed upon to the extent that they are stated in statutes, standards, or regulations.

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Criteria		Impact		Description of Impact (if applicable)	
		YES	NO		
Wi	Il the proposed project:				
1)	Affect a site listed in the National Register of Historic Places (or eligible for inclusion in) the National Register of Historic Places?			Historical preservation: Obtain and submit clearance letters from State office.	
				Architectural, archeological, and cultural: Obtain and submit clearance from local government or local society.	
2)	Affect any threatened or endangered species?			If yes, describe.	
3)	Violate local, State, or Federal standards on aesthetics, or noise?			If yes, describe.	